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**From:** Subramaniam, Ravi [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E738F9D27062486E9047184B867FD968-SUBRAMANIAM, RAVI]  
**Sent:** 5/29/2013 1:31:45 PM  
**To:** Kenny Crump [KennyCrump@email.com]  
**Subject:** evaluation of bottom up approach  
**Attachments:** Appendix I for Kenny.docx; APPENDIX II for Kenny.docx

Kenny

Please treat these write-ups confidentially. They are written up as text for the revised assessment.

The upper bound (additive to background) is in item 3 in Appendix I (page 6). The first part of App I is a summary of their steps. Appendix II has a counter-example calculation I carried out.

Ravi.